BRUHAT BANGALORE MAHANAGARA PALIKE
BYATARAYANAPURA DIVISION
KODIGEHALLI SUB DIVISION

Package 03:- includes 4 works of Rs 249.00 lakhs. 1). Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.2). Improvements to CA Sites Providing Chain Link Fencing in Jakkur, Jakkur Layout and Surrounding areas in Ward No. 07, Byatarayanapura.3). Estimate for Improvements to Roads and footpath Vinayaka Layout 1st Stage, Vinayaka Layout 2nd Stage and Amrutnagara in Ward No. 07, Byatarayanapura.4) Construction and improvements of toilets in Shakaranagara, byatarayanapura surrounding areas in Ward No.07 Byatarayanapura.

Job code:- 007-18-000017 and 007-18-000018 and
007-18-000009 and 007-18-000015

Agency:- M/s BB.Umesh
No.385/1, near Anjeneya Temple,
Bettahalasuru, Bangalore North-562157.

BRUHAT BANGALORE MAHANAGARA PALIKE
BYATARAYANAPURA DIVISION: KODIGEHALLI SUB DIVISION;
WARD NO-07 BYATARAYANAPURA
ABSTRACT -PACKAGE-03

Job codes : 007-18-000017and 007-18-000018 and 007-18-000009 and 007-18-000015
P Code: 3292 and 3292 and 3294 and 3296
Agency: BB UMESHA
First and Part Bill

Sl No	Description	Unit	Qty	Rate	Amount	Remarks
1	Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications	cum				
	Sun Name of work					
	Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		427.00			
	Improvements to CA Sites Providing Chain Link Fencing in Jakkur, Jakkur Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		532.18			
	Improvements to Roads and footpath Vinayaka Layout 1st Stage, Vinayaka Layout 2nd Stage and Amrutnagara in Ward No. 07, Byatarayanapura.		918.85			
	Present Qty		**1878.02**			
	Previous Qty		0			
	Total		1878.02			
	BOQ Qty		2355.67			
	Qty for payment		**1878.02**	**200.00**	**375604**	
2	Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. specification.	cum				
	Sun Name of work					
	Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		68.04			
	Improvements to CA Sites Providing Chain Link Fencing in Jakkur, Jakkur Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		14.58			
	Improvements to Roads and footpath Vinayaka Layout 1st Stage, Vinayaka Layout 2nd Stage and Amrutnagara in Ward No. 07, Byatarayanapura.		0.00			
	Present Qty		**82.62**			
	Previous Qty		0.00			
	Total		82.62			
	BOQ Qty		88.7			
	Qty for payment		**82.62**	**2500.00**	**206550**	

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3	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.	cum				
	Sun Name of work					
	Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		34.02			
	Improvements to CA Sites Providing Chain Link Fencing in Jakkur, Jakkur Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		125.27			
	Improvements to Roads and footpath Vinayaka Layout 1st Stage, Vinayaka Layout 2nd Stage and Amrutnagara in Ward No. 07, Byatarayanapura.		65.43			
	Present Qty		**224.72**			
	Previous Qty		0.00			
	Total		224.72			
	BOQ Qty		311.39			
	Qty for payment		**224.72**	**6000.00**	**1348335**	
21	Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) M 20 for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, for raft foundation column footing , main and secondary beams with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.)	cum				
	Sun Name of work					
	Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		0.00			
	Improvements to CA Sites Providing Chain Link Fencing in Jakkur, Jakkur Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		115.99			
	Improvements to Roads and footpath Vinayaka Layout 1st Stage, Vinayaka Layout 2nd Stage and Amrutnagara in Ward No. 07, Byatarayanapura.		0.00			
	Present Qty		**115.99**			
	Previous Qty		0.00			
	Total		115.99			
	BOQ Qty		115.99			
	Qty for payment		**115.99**	**7000.00**	**811930**	
4	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications					
	Sun Name of work					

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	Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		113.40			
	Improvements to CA Sites Providing Chain Link Fencing in Jakkur, Jakkur Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		54.90			
	Improvements to Roads and footpath Vinayaka Layout 1st Stage, Vinayaka Layout 2nd Stage and Amrutnagara in Ward No. 07, Byatarayanapura.		6.48			
	Present Qty		**174.78**			
	Previous Qty		0.00			
	Total		174.78			
	BOQ Qty		207.63			
	Qty for payment		**174.78**	**5000.00**	**873900**	
6	: Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.	cum				
	Sun Name of work					
	Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		51.03			
	Improvements to CA Sites Providing Chain Link Fencing in Jakkur, Jakkur Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		24.71			
	Improvements to Roads and footpath Vinayaka Layout 1st Stage, Vinayaka Layout 2nd Stage and Amrutnagara in Ward No. 07, Byatarayanapura.		4.86			
	Present Qty		**80.60**			
	Previous Qty		0.00			
	Total		80.60			
	BOQ Qty		94.77			
	Qty for payment		**80.60**	**5994.00**	**483087**	
8	Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications	Sqm				
	Sun Name of work					
	Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		226.80			
	Improvements to CA Sites Providing Chain Link Fencing in Jakkur, Jakkur Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		54.90			
	Improvements to Roads and footpath Vinayaka Layout 1st Stage, Vinayaka Layout 2nd Stage and Amrutnagara in Ward No. 07, Byatarayanapura.		10.80			
	Present Qty		**292.50**			
	Previous Qty		0.00			
	Total		292.50			
	BOQ Qty		421.2			
	Qty for payment		**292.50**	**117.00**	**34223**	

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27	Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4	Sqm				
	Sun Name of work					
	Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		0.00			
	Improvements to CA Sites Providing Chain Link Fencing in Jakkur, Jakkur Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		158.40			
	Improvements to Roads and footpath Vinayaka Layout 1st Stage, Vinayaka Layout 2nd Stage and Amrutnagara in Ward No. 07, Byatarayanapura.		0.00			
	Present Qty		**158.40**			
	Previous Qty		0.00			
	Total		158.40			
	BOQ Qty		258.9			
	Qty for payment		**158.40**	**1000.00**	**158400**	
29	:Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.	Sqm				
	Sun Name of work					
	Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		0.00			
	Improvements to CA Sites Providing Chain Link Fencing in Jakkur, Jakkur Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		316.80			
	Improvements to Roads and footpath Vinayaka Layout 1st Stage, Vinayaka Layout 2nd Stage and Amrutnagara in Ward No. 07, Byatarayanapura.		0.00			
	Present Qty		**316.80**			
	Previous Qty		0.00			
	Total		316.80			
	BOQ Qty		517.8			
	Qty for payment		**316.80**	**237.00**	**75082**	
31	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer.	Sqm				
	Sun Name of work					
	Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		0.00			

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	Improvements to CA Sites Providing Chain Link Fencing in Jakkur, Jakkur Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		316.80			
	Improvements to Roads and footpath Vinayaka Layout 1st Stage, Vinayaka Layout 2nd Stage and Amrutnagara in Ward No. 07, Byatarayanapura.		0.00			
	Present Qty		**316.80**			
	Previous Qty		0.00			
	Total		316.80			
	BOQ Qty		517.8			
	Qty for payment		**316.80**	**100.00**	**31680**	
9	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.	cum				
	Sun Name of work					
	Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		14.94			
	Improvements to CA Sites Providing Chain Link Fencing in Jakkur, Jakkur Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		5.49			
	Improvements to Roads and footpath Vinayaka Layout 1st Stage, Vinayaka Layout 2nd Stage and Amrutnagara in Ward No. 07, Byatarayanapura.		6.30			
	Present Qty		**26.73**			
	Previous Qty		0.00			
	Total		26.73			
	BOQ Qty		31.91			
	Qty for payment		**26.73**	**6517.00**	**174200**	
33	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete	sqm				
	Sun Name of work					
	Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		0.00			
	Improvements to CA Sites Providing Chain Link Fencing in Jakkur, Jakkur Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		0.00			
	Improvements to Roads and footpath Vinayaka Layout 1st Stage, Vinayaka Layout 2nd Stage and Amrutnagara in Ward No. 07, Byatarayanapura.		230.00			
	Present Qty		**230.00**			
	Previous Qty		0.00			
	Total		230.00			
	BOQ Qty		230.45			
	Qty for payment		**230.00**	**700.00**	**161000**	

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10	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineerin - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of	Nos				
	Sun Name of work					
	Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		246.00			
	Improvements to CA Sites Providing Chain Link Fencing in Jakkur, Jakkur Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		33.60			
	Improvements to Roads and footpath Vinayaka Layout 1st Stage, Vinayaka Layout 2nd Stage and Amrutnagara in Ward No. 07, Byatarayanapura.		0.00			
	Present Qty		**279.60**			
	Previous Qty		0.00			
	Total		279.60			
	BOQ Qty		386.4			
	Qty for payment		**279.60**	**981.00**	**274288**	
11	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc.,' complete including two coats of approved quality paint over one coat of shop paint.	m				
	Sun Name of work					
	Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		753.0			
	Improvements to CA Sites Providing Chain Link Fencing in Jakkur, Jakkur Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		66.00			
	Improvements to Roads and footpath Vinayaka Layout 1st Stage, Vinayaka Layout 2nd Stage and Amrutnagara in Ward No. 07, Byatarayanapura.		0.00			
	Present Qty		819.00			
	Previous Qty		0.00			
	Total		819.00			
	BOQ Qty		1092			
	Qty for payment		819.00	388.00	317772	

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12	Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint	Sqm				
	Sun Name of work					
	Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		428.70			
	Improvements to CA Sites Providing Chain Link Fencing in Jakkur, Jakkur Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		59.40			
	Improvements to Roads and footpath Vinayaka Layout 1st Stage, Vinayaka Layout 2nd Stage and Amrutnagara in Ward No. 07, Byatarayanapura.		0.00			
	Present Qty		488.10			
	Previous Qty		0.00			
	Total		488.10			
	BOQ Qty		655.2			
	Qty for payment		488.10	789.00	385111.0	
13	Providing and fixing M.S. Gate as per Chief Architect Drawing, using 50mm x 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members asshown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted	Sqm				
	Sun Name of work					
	Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		12.60			
	Improvements to CA Sites Providing Chain Link Fencing in Jakkur, Jakkur Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		12.96			
	Improvements to Roads and footpath Vinayaka Layout 1st Stage, Vinayaka Layout 2nd Stage and Amrutnagara in Ward No. 07, Byatarayanapura.		0.00			
	Present Qty		**25.56**			
	Previous Qty		0.00			
	Total		25.56			
	BOQ Qty		25.56			
	Qty for payment		**25.56**	**3514.00**	**89818**	

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14	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete	nos				
	Sun Name of work					
	Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		1924.00			
	Improvements to CA Sites Providing Chain Link Fencing in Jakkur, Jakkur Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		147.00			
	Improvements to Roads and footpath Vinayaka Layout 1st Stage, Vinayaka Layout 2nd Stage and Amrutnagara in Ward No. 07, Byatarayanapura.		0.00			
	Present Qty		**2071.00**			
	Previous Qty		0.00			
	Total		2071.00			
	BOQ Qty		2071			
	Qty for payment		**2071.00**	**374.00**	**774554**	
17	Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.	Sqm				
	Sun Name of work					
	Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		296.10			
	Improvements to CA Sites Providing Chain Link Fencing in Jakkur, Jakkur Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		22.05			
	Improvements to Roads and footpath Vinayaka Layout 1st Stage, Vinayaka Layout 2nd Stage and Amrutnagara in Ward No. 07, Byatarayanapura.		0.00			
	Present Qty		**318.15**			
	Previous Qty		0.00			
	Total		318.15			
	BOQ Qty		319.2			
	Qty for payment		**318.15**	**31.00**	**9863**	
18	Providing and applying spray painting in two coats (excluding priming coat) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.	Sqm				
	Sun Name of work					
	Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		296.10			

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	Improvements to CA Sites Providing Chain Link Fencing in Jakkur, Jakkur Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		22.05			
	Improvements to Roads and footpath Vinayaka Layout 1st Stage, Vinayaka Layout 2nd Stage and Amrutnagara in Ward No. 07, Byatarayanapura.		0.00			
	Present Qty		**318.15**			
	Previous Qty		0.00			
	Total		318.15			
	BOQ Qty		319.2			
	Qty for payment		**318.15**	**79.00**	**25134**	
19	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. C. Prestressed / Reinforced cement concrete grade M-20 & above.	cum				
	Sun Name of work					
	Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		0.00			
	Improvements to CA Sites Providing Chain Link Fencing in Jakkur, Jakkur Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		3.42			
	Improvements to Roads and footpath Vinayaka Layout 1st Stage, Vinayaka Layout 2nd Stage and Amrutnagara in Ward No. 07, Byatarayanapura.		0.00			
	Present Qty		**3.42**			
	Previous Qty		0.00			
	Total		3.42			
	BOQ Qty		3.42			
	Qty for payment		**3.42**	**1224.00**	**4192**	
20	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. ii) Dismantling brick/Tile work B. In cement mortar.	cum				
	Sun Name of work					
	Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		0.00			
	Improvements to CA Sites Providing Chain Link Fencing in Jakkur, Jakkur Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		14.49			
	Improvements to Roads and footpath Vinayaka Layout 1st Stage, Vinayaka Layout 2nd Stage and Amrutnagara in Ward No. 07, Byatarayanapura.		0.00			
	Present Qty		**14.49**			
	Previous Qty		0.00			
	Total		14.49			

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	BOQ Qty		14.49			
	Qty for payment		**14.49**	**292.00**	**4232**	
15	Sand Filling in Foundation Trenches as per Drawing & Technical Specification	cum				
	Sun Name of work					
	Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		184.75			
	Improvements to CA Sites Providing Chain Link Fencing in Jakkur, Jakkur Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		165.00			
	Improvements to Roads and footpath Vinayaka Layout 1st Stage, Vinayaka Layout 2nd Stage and Amrutnagara in Ward No. 07, Byatarayanapura.		0.00			
	Present Qty		**349.75**			
	Previous Qty		0.00			
	Total		349.75			
	BOQ Qty		353.8			
	Qty for payment		**349.75**	**3302.00**	**1154875**	
16	Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per	Sqm				
	Sun Name of work					
	Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		866.00			
	Improvements to CA Sites Providing Chain Link Fencing in Jakkur, Jakkur Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		825.00			
	Improvements to Roads and footpath Vinayaka Layout 1st Stage, Vinayaka Layout 2nd Stage and Amrutnagara in Ward No. 07, Byatarayanapura.		0.00			
	Present Qty		**1691.00**			
	Previous Qty		0.00			
	Total		1691.00			
	BOQ Qty		1691			
	Qty for payment		**1691.00**	**1092.00**	**1846572**	
32	Removing and refixing stone slabs of drains and pointing in CM (1:3)	Sqm				
	Sun Name of work					
	Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		0.00			
	Improvements to CA Sites Providing Chain Link Fencing in Jakkur, Jakkur Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		0.00			

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	Improvements to Roads and footpath Vinayaka Layout 1st Stage, Vinayaka Layout 2nd Stage and Amrutnagara in Ward No. 07, Byatarayanapura.		760.50			
	Present Qty		**760.50**			
	Previous Qty		0.00			
	Total		760.50			
	BOQ Qty		1305.86			
	Qty for payment		**760.50**	**91.00**	**69206**	
34	Providing and laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications.	cum				
	Sun Name of work					
	Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		0.00			
	Improvements to CA Sites Providing Chain Link Fencing in Jakkur, Jakkur Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		0.00			
	Improvements to Roads and footpath Vinayaka Layout 1st Stage, Vinayaka Layout 2nd Stage and Amrutnagara in Ward No. 07, Byatarayanapura.		144.27			
	Present Qty		**144.27**			
	Previous Qty		0.00			
	Total		144.27			
	BOQ Qty		277.97			
	Qty for payment		**144.27**	**7000.00**	**1009890**	
23	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - TMT bars Fe 500	tonne				
	Sun Name of work					
	Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		0.00			
	Improvements to CA Sites Providing Chain Link Fencing in Jakkur, Jakkur Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		1.53			

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	Improvements to Roads and footpath Vinayaka Layout 1st Stage, Vinayaka Layout 2nd Stage and Amrutnagara in Ward No. 07, Byatarayanapura.		6.39			
	Present Qty		**7.92**			
	Previous Qty		0.00			
	Total		7.92			
	BOQ Qty		18.57			
	Qty for payment		**7.92**	**72595.00**	**575084**	
25	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications	Sqm				
	Sun Name of work					
	Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		0.00			
	Improvements to CA Sites Providing Chain Link Fencing in Jakkur, Jakkur Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		171.62			
	Improvements to Roads and footpath Vinayaka Layout 1st Stage, Vinayaka Layout 2nd Stage and Amrutnagara in Ward No. 07, Byatarayanapura.		1099.20			
	Present Qty		**1270.82**			
	Previous Qty		0.00			
	Total		1270.82			
	BOQ Qty		2387.77			
	Qty for payment		**1270.82**	**350.00**	**444787**	
36	Providing precast slab of 100 mm thick including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge	Sqm				
	Sun Name of work					
	Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		0.00			
	Improvements to CA Sites Providing Chain Link Fencing in Jakkur, Jakkur Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		0.00			
	Improvements to Roads and footpath Vinayaka Layout 1st Stage, Vinayaka Layout 2nd Stage and Amrutnagara in Ward No. 07, Byatarayanapura.		499.50			
	Present Qty		**499.50**			
	Previous Qty		0.00			
	Total		499.50			
	BOQ Qty		810			
	Qty for payment		**499.50**	**2057.00**	**1027472**	
35	Providing precast slab of 250 mm thick including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge- Data rate	Sqm				
	Sun Name of work					

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	Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		0.00			
	Improvements to CA Sites Providing Chain Link Fencing in Jakkur, Jakkur Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		0.00			
	Improvements to Roads and footpath Vinayaka Layout 1st Stage, Vinayaka Layout 2nd Stage and Amrutnagara in Ward No. 07, Byatarayanapura.		21.60			
	Present Qty		**21.60**			
	Previous Qty		0.00			
	Total		21.60			
	BOQ Qty		21.6			
	Qty for payment		**21.60**	**5791.00**	**125086**	
37	Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.	cum				
	Sun Name of work					
	Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		0.00			
	Improvements to CA Sites Providing Chain Link Fencing in Jakkur, Jakkur Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		0.00			
	Improvements to Roads and footpath Vinayaka Layout 1st Stage, Vinayaka Layout 2nd Stage and Amrutnagara in Ward No. 07, Byatarayanapura.		287.68			
	Present Qty		**287.68**			
	Previous Qty		0.00			
	Total		287.68			
	BOQ Qty		287.73			
	Qty for payment		**287.68**	**1997.00**	**574487**	
38	Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.	Sqm				
	Sun Name of work					
	Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		0.00			
	Improvements to CA Sites Providing Chain Link Fencing in Jakkur, Jakkur Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		0.00			
	Improvements to Roads and footpath Vinayaka Layout 1st Stage, Vinayaka Layout 2nd Stage and Amrutnagara in Ward No. 07, Byatarayanapura		6493.10			

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	Present Qty		**6493.10**			
	Previous Qty		0.00			
	Total		6493.10			
	BOQ Qty		6493.1			
	Qty for payment		**6493.10**	**13.00**	**84411**	
39	Providing and laying bituminous concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - using 40/60 TPH	cum				
	Sun Name of work					
	Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		0.00			
	Improvements to CA Sites Providing Chain Link Fencing in Jakkur, Jakkur Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		0.00			
	Improvements to Roads and footpath Vinayaka Layout 1st Stage, Vinayaka Layout 2nd Stage and Amrutnagara in Ward No. 07, Byatarayanapura.		259.74			
	Present Qty		**259.74**			
	Previous Qty		0.00			
	Total		259.74			
	BOQ Qty		259.72			
	Qty for payment		**259.72**	**8000.00**	**2077760**	
40	.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications.	Sqm				
	Sun Name of work					
	Improvements to CA Sites Providing Chain Link Fencing in Coffee Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		0.00			
	Improvements to CA Sites Providing Chain Link Fencing in Jakkur, Jakkur Layout and Surrounding areas in Ward No. 07, Byatarayanapura.		0.00			
	Improvements to Roads and footpath Vinayaka Layout 1st Stage, Vinayaka Layout 2nd Stage and Amrutnagara in Ward No. 07, Byatarayanapura.		210.40			
	Present Qty		**210.40**			
	Previous Qty		0.00			
	Total		210.40			
	BOQ Qty		210.4			
	Qty for payment		**210.40**	**613.00**	**128976**	
		GRAND TOTAL			1573561	

AE(W)

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MEASUREMENT SHEETS

BRUHATH BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

of Work: Estimate for Improvements to CA Sites Providing Chain Link Fencing in Board Layout and Surrounding areas in Ward No. 07, Byatarayanapura.

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork **excavation by manual means in ordinary soil** involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.								
For coffee board layout park - neat to milk booth - park-1		1.00	83.00	1.00	1.00	83.00		
		1.00	28.00	1.00	1.00	28.00		
		1.00	63.00	1.00	1.00	63.00		
park-2		1.00	50.00	1.00	1.00	50.00		
		1.00	28.00	1.00	1.00	28.00		
For path way maintenance old park in coffe board layout								
For path Way park 1		1	30.00	2.50	0.20	15.00		
		1	30.00	2.00	0.20	12.00		
For path Way park 2		1	100.00	2.00	0.20	40.00		
		1	30.00	2.00	0.20	12.00		
		1	50.00	2.00	0.20	20.00		
		1	60.00	2.00	0.20	24.00		
		1	45.00	2.00	0.20	18.00		
		1	85.00	2.00	0.20	34.00		
						427.00	200.00	**85400.00**
KSRB 2.8 : Providing and **Filling in foundation with granite / trap broken metal** 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications.								
Soling For Chain Link Fenicing		1	83.00	0.90	0.30	22.41		
		1	28.00	0.90	0.30	7.56		
		1	63.00	0.90	0.30	17.01		
		1	50.00	0.90	0.30	13.50		
		1	28.00	0.90	0.30	7.56		
						68.04	**2500**	**170100**

NDD DE(LM) 01/08

NDD DE(LM) 04/8

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KSRB 4-1.2 : Providing and laying in position **plain cement concrete of mix 1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ .465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation** including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2.								
Bed Concrete For Chain Link Fenicing		1	83.00	0.90	0.15	11.21		
		1	28.00	0.90	0.15	3.78		
		1	63.00	0.90	0.15	8.51		
		1	50.00	0.90	0.15	6.75		
		1	28.00	0.90	0.15	3.78		
						34.02	6000.00	**204120.00**
KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6, stone** hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13								
Foundation For Chain Link Fenicing		1	83.00	0.75	0.60	37.35		
		1	28.00	0.75	0.60	12.60		
		1	63.00	0.75	0.60	28.35		
		1	50.00	0.75	0.60	22.50		
		1	28.00	0.75	0.60	12.60		
						113.40	5000.00	**567000.00**
KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13								
Basement For Chain Link Fenicing		1	83.00	0.45	0.45	16.81		
		1	28.00	0.45	0.45	5.67		
		1	63.00	0.45	0.45	12.76		
		1	50.00	0.45	0.45	10.13		
		1	28.00	0.45	0.45	5.67		
						51.03	5994.00	**305874.00**
KSRB 15.1.3 Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications								
Pointing For Chain Link Fenicing		2	83.00		0.45	74.70		
		2	28.00		0.45	25.20		
		2	63.00		0.45	56.70		
		2	50.00		0.45	45.00		
		2	28.00		0.45	25.20		
						226.80	117.00	**26536.00**

NDD DE(HQ) 6/8

NDD DE(HQ) 8/8

NDD DE(HQ) 10/8

NDD DE(HQ) 13/8

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6	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.								
	Coping For Chain Link Fenicing		1	83	0.45	0.10	3.74		
			1	28	0.45	0.10	1.26		
			1	63	0.45	0.10	2.84		
			1	50	0.45	0.10	2.25		
			1	28	0.45	0.10	1.26		
	Repair of damaged fencing of old park in coffe board layout		1	30.00	0.45	0.10	1.35		
		Cum	1	50.00	0.45	0.10	2.25		
							14.94	6517.00	**97364.00**
7	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineerin - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete)								
	For Chain Link Fenicing		85	2.40			204.00		
	Repair Work		20	2.10			42.00		
							246.00	981.00	**241326.00**
8	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint.								
	For Chain Link Fenicing		3	83.00			249.00		
			3	28.00			84.00		
			3	63.00			189.00		
	For repair work in old park coffe board layout		3	42.00			126.00		
		m	3	35.00			105.00		
							753.00	388.00	**292164.00**

9	Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint									
	For Chain Link Fenicing		1	83.00		1.80	149.40			
			1	28.00		1.80	50.40			
			1	63.00		1.80	113.40			
	For repair work in old park coffe board layout		1	42.00		1.50	63.00			
			1	35.00		1.50	52.50			
		Sqm					**428.70**	789.00	**338244.00**	NDD AE(D)
10	Providing and fixing M.S. Gate as per Chief Architect Drawing, using 50mm x 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members asshown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specifiocation.									
	Gate	Sqm	2	3.50	1.80		12.60			
							12.60	3514.00	**44276.00**	NDD AE(D)
11	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete									
	For path Way park 1	140					140			
		140					140			
		450					450			
		140					140			
		230					230			
		230					230			
		395					395			
		200					200			
							1924	374.00	**719576.00**	NDD
12	KSRRB M2100-9. Sand Filling in Foundation Trenches as per Drawing & Technical SpecificationMORTH Specification No. 304									

	For path way maintenance old park in coffe board layout		1	30	2.50	0.25	18.75		
			1	30	2.00	0.25	15.00		
			1	100	2.00	0.20	40.00		
			1	30	2.00	0.25	15.00		
			1	50	2.00	0.20	20.00		
			1	60	2.00	0.20	24.00		
			1	45	2.00	0.20	18.00		
		Cum	1	85	2.00	0.20	34.00		
							184.75	3302.00	**610045.00**
13	KSRB 14.6-1: Providing and laying **heavy duty cobble stones 60mm thick interlock pavers**, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS.								
	For path way maintenance old park in coffe board layout		1	30	2.2		66.00		
			1	30	2		60.00		
			1	100	2		200.00		
			1	30	2		60.00		
			1	50	2		100.00		
			1	60	2		120.00		
			1	45	2		90.00		
		Sqm	1	85	2		170.00		
							866.00	1092.00	**945672.00**
14	KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.								
	Kerb Stone Painting		1	140.00		0.15	21.00		
			1	140.00		0.15	21.00		
			1	450.00		0.15	67.50		
			1	140.00		0.15	21.00		
			1	230.00		0.15	34.50		
			1	230.00		0.15	34.50		
			1	395.00		0.20	79.00		
			1	200.00		0.15	30.00		
		Sqm					**308.50**	31.00	**9179.00**
		ltd to					**296.10**		

	SRB 15-19.2 : Providing and applying spray painting in two coats (excluding priming coat) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.								
		Sqm	Qty Vide Item No. 14				296.10		
							296.10	79.00	**23392.00**
								Total	**4881836.00**

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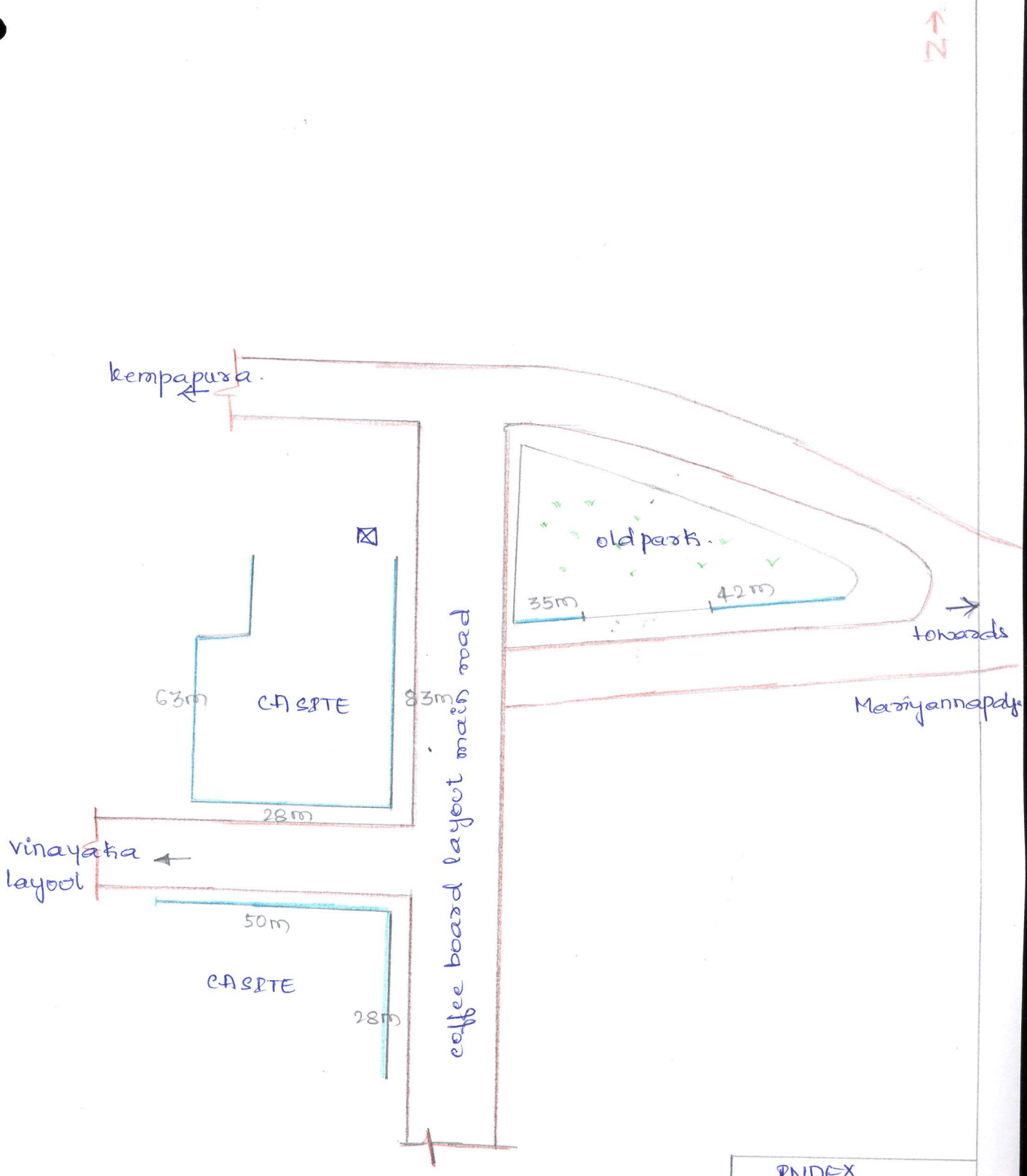

SKETCH

INDEX
- chain link fencing.
- Bangalore one.

N.D
AE(W7)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Name of Work: Estimate for Improvements to CA Sites Providing Chain Link Fencing in Jakkur, Jakkur Layout and Surrounding areas in Ward No. 07, Byatarayanapura.

Sl No.	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB M200-12.3. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. C. Prestressed / Reinforced cement concrete grade M-20 & above. MORTH Specification No. 202								
	Roof Concrete		1	6.00	3.00	0.15	2.70		
	Lintel Long Walls		2	6.00	0.23	0.15	0.41		
	Short Walls		3	3.00	0.23	0.15	0.31		
		cum					**3.42**	1224.00	**4192.00**
2	KSRRB M200-14.2. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. ii) Dismantling brick/Tile work B. In cement mortar.								
	Long Walls		2	6.00	0.23	3.00	8.28		
	Short Walls		3	3.00	0.23	3.00	6.21		
		cum					**14.49**	292.00	**4231.00**
3	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork **excavation by manual means in ordinary soil** involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.								
	EDGA Ground - for foundation								
	For solid block compund		1	38.00	0.90	0.90	30.78		
	For chain link fencing compund		1	34.00	0.90	0.90	27.54		
	water tank- sump		1	3.50	3.50	2.00	24.50		
	For laying pavers for prayer hall		1	33.00	25.00	0.15	123.75		
	For jakkur hospital						**206.57**		
	Solid block hospital- LHS Side and front side		1	14.00	0.90	0.90	11.34		
			1	10.00	0.90	0.90	8.10		
			1	12.00	0.90	0.90	9.72		
	water tank-sump		1	3.00	2.00	2.00	12.00		
			1	14.00	0.90	0.90	11.34		
	Jakkur Muslim Colony- CC Road	**CH**					**52.50**		
	4th cross road	0-15	1	15	3.45	0.3	15.53		
		15-30	1	15	2.9	0.3	13.05		
		30-43	1	13	3	0.3	11.70		
	CROSS ROAD	0-15	1	15	3.7	0.3	16.65		

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		15-18.5	1	3.5	3.2	0.3	3.36		
	3 Cross road	0-15	1	15	4.4	0.3	19.80		
		15-30	1	15	4.5	0.3	20.25		
		30-45	1	15	3.95	0.3	17.78		
		45-60	1	15	3.1	0.3	13.95		
		60-75	1	15	2.6	0.3	11.70		
		75-86	1	11	2.85	0.3	9.41		
	cross road	0-15	1	15	2.6	0.3	11.70		
		15-28	1	13	2.6	0.3	10.14		
	RCC drain						**175.01**		
		0-15	2	15	0.75	0.75	16.88		
		15-30	2	15	0.75	0.75	16.88		
		30-41	2	11	0.75	0.75	12.38		
		41-56	2	15	0.75	0.75	16.88		
		56-80	2	24	0.75	0.75	27.00		
							90.00		
	culverts		2	5.00	0.90	0.90	8.10	R-2/8	
		cum					**532.18**	200.00	**106435.00**
4	KSRRB M2100-9. **Sand Filling** in Foundation Trenches as per Drawing & Technical SpecificationMORTH Specification No. 304								
	For Cobble Stone in kabarsthan	Cum	1	33.00	25.00	0.20	165.00		
							165.00	3302.00	**544830.00**
5	KSRB 14.6-1: Providing and laying **heavy duty cobble stones 60mm thick interlock pavers**, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level,								
	For Cobble Stone in EDGA Ground	Sqm	1	33.00	25.00		825.00		
							825.00	1092.00	**900900.00**
6	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete								
		No					**147**		
							147	374.00	**54978.00**

NDD DE(WS)

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	KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.									
		Sqm	147			0.15	**22.05**	31.00	**684.00**	NDP Dte(WS)
8	KSRB 15-19.2 : Providing and applying spray painting in two coats (excluding priming coat) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications									
		Sqm	147			0.15	**22.05**	79.00	**1742.00**	NDP Dte(WS)
9	KSRB 2.8 : Providing and **Filling in foundation with granite / trap broken metal** 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. specification. No. KBS **Page No. 5 / Item No. 2.15 of PWD SR 2016-17**									
	EDGA Ground - for foundation									
	For solid block compund		1	38.00	0.9	0.15	5.13			
	For chain link fencing compund		1	34	0.9	0.15	4.59			
	For jakkur hospital									
	Solid block hospital- LHS Side and front side		1	14	0.90	0.15	1.89			
			1	10	0.90	0.15	1.35			
			1	12	0.90	0.15	1.62			
		cum					**14.58**	2500.00	**36450.00**	NDP Dte(WS)
10	KSRB 4-1.2 : Providing and laying in position **plain cement concrete of mix 1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation** including cost of all materials, labour, HOM of machinery, curing complete as per specifications.									
	EDGA Ground - for foundation									
	For solid block compund		1	38.00	0.90	0.15	5.13			
	For chain link fencing compund		1	34.00	0.90	0.15	4.59			
	water tank- sump		1	3.50	2.00	0.15	1.05			
	For jakkur hospital									
	Solid block hospital- LHS Side and front side		1	14.00	0.90	0.15	1.89			
			1	10.00	0.90	0.15	1.35			
			1	12.00	0.90	0.15	1.62			
			1	3.00	2.00	0.15	0.90			
			1	14.00	0.90	0.15	1.89			
	Jakkur Muslim Colony- CC Road									
	4th cross road	0-15	1	15	3.45	0.15	7.76			

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		15-30	1	15	2.90	0.15	6.53		
		30-43	1	13	3.00	0.15	5.85		
	CROSS ROAD	0-15	1	15	3.70	0.15	8.33		
		15-18.5	1	3.5	3.20	0.15	1.68		
	3RD Cross road	0-15	1	15	4.40	0.15	9.90		
		15-30	1	15	4.50	0.15	10.13		
		30-45	1	15	3.95	0.15	8.89		
		45-60	1	15	3.10	0.15	6.98		
		60-75	1	15	2.60	0.15	5.85		
		75-86	1	11	2.85	0.15	4.70		
	cross road	0-15	1	15	2.6	0.15	5.85		
		15-28	1	13	2.6	0.15	5.07		
	RCC drain								
		0-15	2	15	0.75	0.15	3.38		
		15-30	2	15	0.75	0.15	3.38		
		30-41	2	11	0.75	0.15	2.48		
		41-56	2	15	0.75	0.15	3.38		
		56-80	2	24	0.75	0.15	5.40		
	culvert bottom		2	5	0.9	0.15	1.35		
							125.27	6000.00	**751635.00**

12 KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - **TMT bars Fe 500**

	EDGA GROUND -For sump							
	4 Side walls		4	3.50	22.00	2.40		52.80
			4	3.50	22.00	3.30	72.60	
	covering slab				24.00	3.50	84.00	
					24.00	3.50	84.00	
							240.60	**52.80**

JAKKUR MUSLIM COLONY- RCC DRAIN				**no of rods**	**le of u bar**	**Total length**	
			L			**8mm (U bar)**	8mm
Main rod	0-15	2	15	300	1.8	540	
distribution		2	15	7	30		210
	15-30	2	15	300	1.8	540	
		2	15	7	30		210
	30-41	2	11	220	1.8	396	

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			2	11	7	30		210	
		41-56	2	15	300	1.8	540		
			2	15	7	30		210	
		56-80	2	24	480	1.8	864		
			2	24	7	30		210	
							2880.00	1050.00	
	8mm at 0.62 Kg/cum						1123.20		
	8mm at 0.39 Kg/cum						409.50		
							1532.70		
							1.53	**72595.00**	**111266.00**
13	KSRB 4-6.4 : Providing and removing **centering, shuttering, strutting, propping** etc., and removal of form work for **vertical surface such as walls at any thickness**, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications.								
	For culvert slabs - side walls	2	5		0.60		12.00		
		2*2	5		0.23		4.60		
		2*2	1.5		0.23		1.38		
	EDGA GROUND -For sump	4	3.5		2.40		33.60		
		4	3.5		2.40		33.60		
	covering slab	1	3.5		3.50		49.00		
	cover opening	1	0.6		0.60		1.44		
							135.62		
	JAKKUR MUSLIM COLONY- RCC DRAIN								
		0-15	4	15	0.45		7.20		
		15-30	4	15	0.45		7.20		
		30-41	4	11	0.45		7.20		
		41-56	4	15	0.45		7.20		
		56-80	4	24	0.45		7.20		
							36.00		
							171.62	350.00	**60067.00**
11	Providing and laying **cement concrete** using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete **(RMC)** M 20 for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, for raft foundation column footing , main and secondary beams with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.)								
	EDGA GROUND								
	Sump- side wall	2*2	4	3.50	2.40	0.15	5.04		
	Sump- covering slab		1	3.50	3.50	0.15	1.84		
	Deduct covering slab		1	0.60	0.60	0.15	0.05		
	Jakkur Muslim Colony- CC Road								

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		0-15	1	15	3.45	0.10	5.18		
		15-30	1	15	2.9	0.10	4.35		
		30-43	1	13	3	0.10	3.90		
		0-15	1	15	3.7	0.10	5.55		
		15-18.5	1	3.5	3.2	0.10	1.12		
		0-15	1	15	4.4	0.10	6.60		
		15-30	1	15	4.5	0.10	6.75		
		30-45	1	15	3.95	0.10	23.70		
		45-60	1	15	3.1	0.10	4.65		
		60-75	1	15	2.6	0.10	3.90		
		75-86	1	11	2.85	0.10	3.14		
	cross road	0-15	1	15	2.6	0.10	3.90		
		15-28	1	13	2.6	0.10	3.38		
	RCC DRAIN BOTTOM	0-15	2	15	0.75	0.15	3.38		
		15-30	2	15	0.75	0.15	3.38		
		30-41	2	11	0.75	0.15	2.48		
		41-56	2	15	0.75	0.15	3.38		
		56-80	2	24	0.75	0.15	5.40		
	RCC DRAIN SIDE WALL		4	15	0.15	0.45	4.05		
			4	15	0.15	0.45	4.05		
			4	11	0.15	0.45	2.97		
			4	15	0.15	0.45	4.05		
			4	24	0.15	0.45	6.48		
	culvert slab		4	5	1.5	0.23	6.90		
							129.54		
					Qty Ltd to:-		**115.99**	7000.00	**811930.00**
14	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6, stone** hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13								
	EDGA Ground - for foundation								
			1	38	0.75	0.60	17.10		
			1	34	0.75	0.60	15.30		
Solid block hospital- LHS Side and front side			1	14	0.75	0.60	6.30		
			1	10	0.75	0.60	4.50		
			1	12	0.75	0.60	5.40		
			1	14	0.75	0.60	6.30		
							54.90	5000.00	**274500.00**

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	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.								
	EDGA Ground - for foundation								
			1	38	0.45	0.45	7.70		
			1	34	0.45	0.45	6.89		
	Solid block hospital- LHS Side and front side								
			1	14	0.45	0.45	2.84		
			1	10	0.45	0.45	2.03		
			1	12	0.45	0.45	2.43		
			1	14	0.45	0.45	2.84		
							24.71	5994.00	**148082.00**
16	KSRB 15.1.3 Providing **ruled pointing** to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications								
	EDGA Ground - for foundation								
			1	38		0.45	17.10		
			1	34		0.45	15.30		
	Solid block hospital- LHS Side and front side								
			1	14		0.45	6.30		
			1	10		0.45	4.50		
			1	12		0.45	5.40		
			1	14		0.45	6.30		
							54.90	117.00	**6423.00**
17	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2.								
	EDGA Ground - for foundation								
			1	38	0.45	0.10	1.71		
			1	34	0.45	0.10	1.53		
	Solid block hospital- LHS Side and front side								
			1	14	0.45	0.10	0.63		
			1	10	0.45	0.10	0.45		
			1	12	0.45	0.10	0.54		
			1	14	0.45	0.10	0.63		

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							5.49	6517.00	**35778.00**
	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4								
	EDGA GROUND								
	Solid block compund wall		1	38		1.80	68.40		
	Solid block hospital- LHS Side and front side		1	14.00		1.80	25.20		
			1	10.00		1.80	18.00		
			1	12.00		1.80	21.60		
			1	14.00		1.80	25.20		
							158.40	1000.00	**158400.00**
19	KSRB15-3.9 :Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.								
	Solid block compund wall		2	38.00		1.80	136.80		
	Solid block hospital- LHS Side and front side								
			2	14.00		1.80	50.40		
			2	10.00		1.80	36.00		
			2	12.00		1.80	43.20		
			2	14.00		1.80	50.40		
							316.80	237.00	**75082.00**
20	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer.								
			Qty Vide Item No.				**316.80**		
							316.80	100.00	**31680.00**
21	Supplying and fixing **M.S. Rectangular poles** made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineerin - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding								
	FOR EDGA GROUND For Chain Link Fenicing	m	14	2.40			33.60		
							33.60	981.00	**32962.00**

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NDD DE(HQ) 29/8

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	roviding and fixing **M.S. Block pipe** of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two vertical poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of								
	FOR EDGA GROUND For Chain Link Fenicing	m	2	33.00			66.00		
							66.00	388.00	**25608.00**
23	Providing **chain link fencing** 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint								
	For Chain Link Fenicing	Sqm	1	33.00		1.80	59.40		
							59.40	789.00	**46867.00**
24	Providing and fixing **M.S. Gate** as per Chief Architect Drawing, using 50mm x 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members asshown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free								
	Edga and Hospital	Sqm	2	3.60	1.80		12.96		
							12.96	3514.00	**45541.00**
								Total	**4266071.00**

NDP AE(LM) 01/09/18

NDP AE(LM) 01/09/18

NDP AE(LM) 3/9

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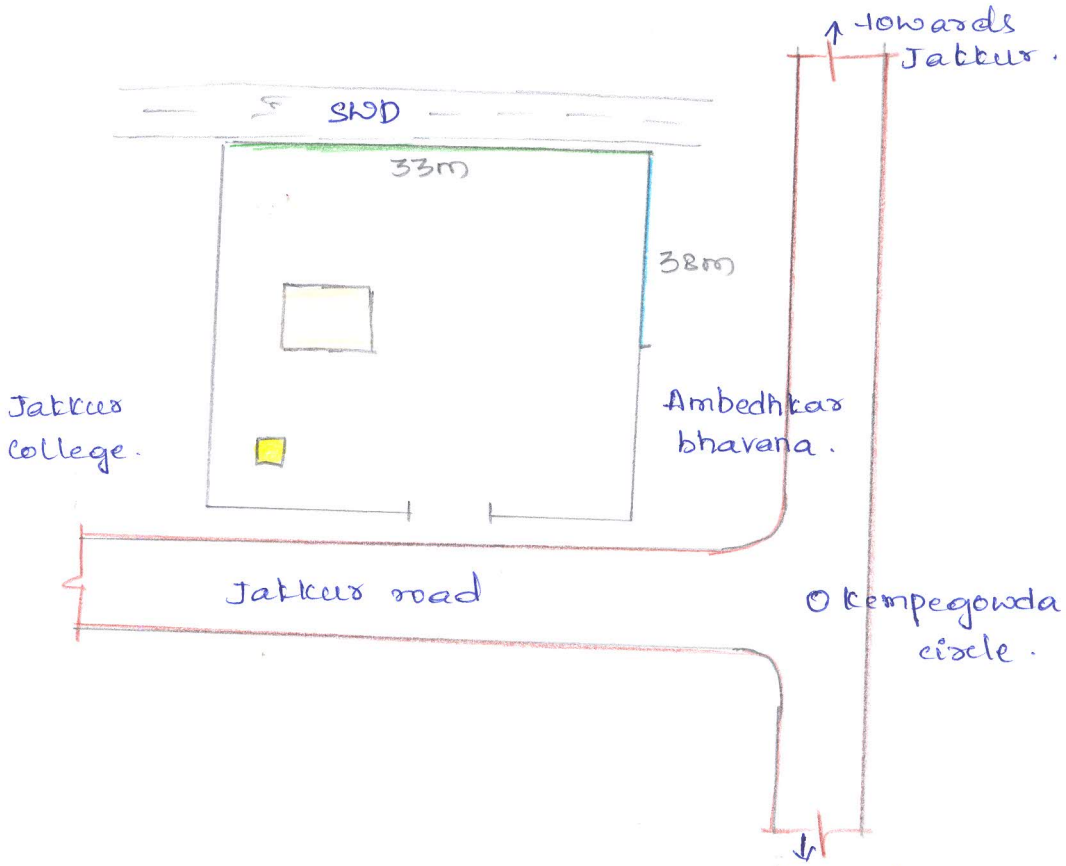
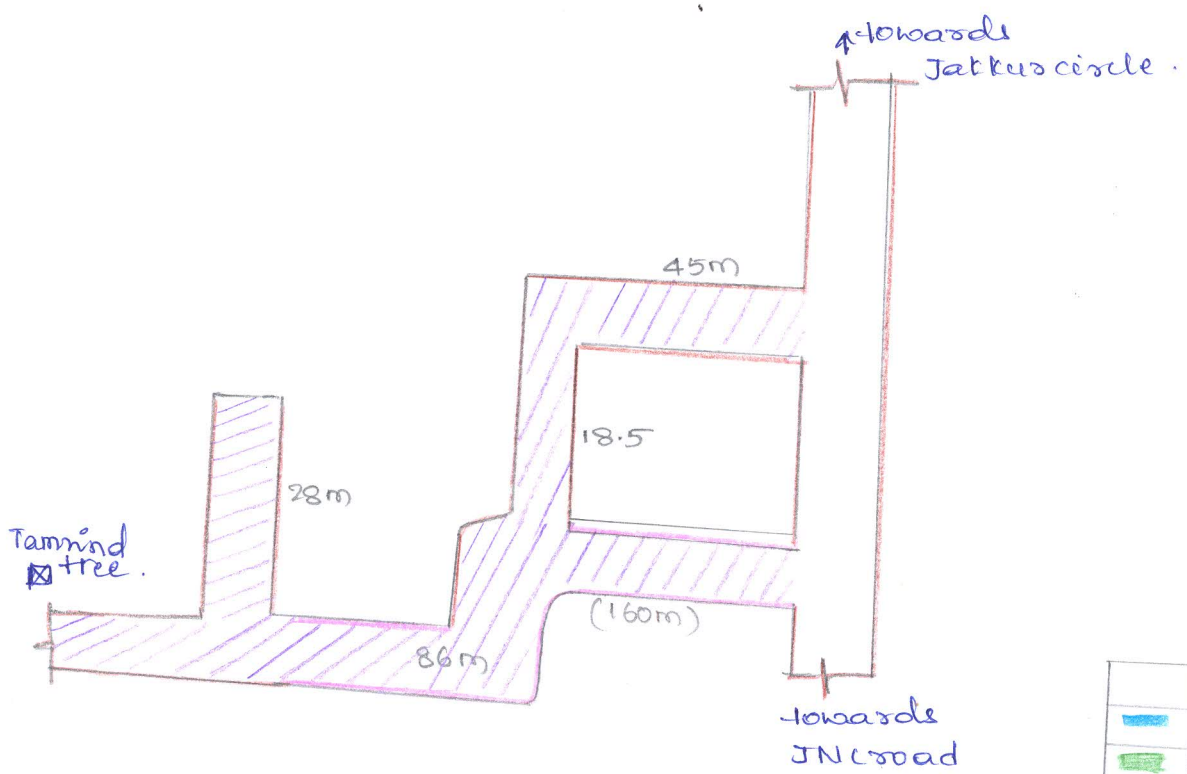


SKETCH-01 - EDGA GROUND.



SKETCH-02 - JAKKUR MUSLIM - COLONY

INDEX
solid black CW
Chain link fencing
Pavers
Sump
RCC drain
CC-road

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Name of Work: Estimate for Improvements to Roads and footpath Vinayaka Layout 1st Stage, Vinayaka Layout 2nd Stage and Amrutnagara in Ward No. 07, Byatarayanapura.

Sl No.	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earthwork **excavation by manual means in ordinary soil** involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH /								
	Desilting of drains -Vinayaka Layout- 1stage								
	1st A cross		2	30	0.45	0.45	12.15		
			2	30	0.45	0.45	12.15		
			2	20	0.45	0.45	8.10		
	2nd A cross		2	30	0.45	0.45	12.15		
			2	30	0.45	0.45	12.15		
			2	20	0.45	0.45	8.10		
	3rd A cross		2	30	0.45	0.45	12.15		
			2	30	0.45	0.45	12.15		
			2	30	0.45	0.45	12.15		
			2	20	0.45	0.45	8.10		
	4th A cross		2	30	0.45	0.45	12.15		
			2	30	0.45	0.45	12.15		
			2	30	0.45	0.45	12.15		
			2	20	0.45	0.45	8.10		
	5th cross		2	36	0.45	0.45	14.58		
	6th cross		2	33	0.45	0.45	13.37		
							181.85		
	RCC DRAIN								
	1st main road								
	0-30		2	30	1	0.9	54.00		
	30-46		2	16	1	0.9	28.80		
	46-56		culvert						
	56-86		2	30	1	0.9	54.00		
	86-94		culvert						
	94-119		2	25	1	0.9	45.00		
	119-128		culvert						
	128-151		2	23	1	0.9	41.40		
	151-161		culvert						
	161-186		2	25	1	0.9	45.00		
	186-195		culvert						

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	19[illegible]18		2	23	1	0.9	41.40		
	218-227		culvert						
	227-257		2	30	1	0.9	54.00		
	257-284		2	27	1	0.9	48.60		
	culverts		2	6	2	1.2	28.80		
	Road work						**441.00**		
	1st A cross		5	10	2	0.2	20.00		
			10	5	2	0.2	20.00		
	2nd A cross		15	5	1.5	0.2	22.50		
			20	6	2.5	0.2	60.00		
	3rd A cross		15	4.5	2	0.2	27.00		
			10	2.5	2	0.2	10.00		
	4th A cross		15	3	3	0.2	27.00		
			20	2.5	3	0.2	30.00		
	5th cross		15	3	2.5	0.2	22.50		
			10	2.5	3	0.2	15.00		
	6th cross		20	3	3.5	0.2	42.00		
							296.00		
							918.85	**200**	**183769**
2	Removing and refixing stone slabs of drains and pointing in CM (1:3)								
	Repairs to existing drain - Vinayaka Layout- 1stage								
	1st A cross- sidewall		2	25	0.5		25.0		
	Bottom		1	25	0.5		12.5		
	Side wall		2	30	0.5		30.0		
	Bottom		1	30	0.5		15.0		
	Side wall		2	30	0.5		30.0		
	Bottom		1	30	0.5		15.0		
	Side wall		2	28	0.5		28.0		
	Bottom		1	28	0.5		14.0		
	Side wall		2	29	0.5		29.0		
	Bottom		1	29	0.5		14.5		
	2nd A cross- Side wall		2	25	0.5		25		
	Bottom		1	25	0.5		12.5		
	Side wall		2	30	0.5		30.0		
	Bottom		1	30	0.5		15.0		
	Side wall		2	29	0.5		29.0		
	Bottom		1	29	0.5		14.5		
	Side wall		2	30	0.5		30.0		

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	Bottom		1	30	0.5		15.0		
	Side wall		2	28	0.5		28.0		
	Bottom		1	28	0.5		14.0		
	Side wall		2	32	0.5		32.0		
	Bottom		1	32	0.5		16.0		
	3rd A cross- Side wall		2	25	0.5		25.0		
	Bottom		1	25	0.5		12.5		
	Side wall		2	25	0.5		25.0		
	Bottom		1	25	0.5		12.5		
	Side wall		2	30	0.5		30.0		
	Bottom		1	30	0.5		15.0		
	Side wall		2	25	0.5		25.0		
	Bottom		1	25	0.5		12.5		
	Side wall		2	31	0.5		31.0		
	Bottom		1	31	0.5		15.5		
	Side wall		2	25	0.5		25.0		
	Bottom		1	25	0.5		12.5		
	Side wall		2	30	0.5		30.0		
	Bottom		1	30	0.5		15.0		
	4th cross- Side wall		2	15	0.5		15.0		
	Bottom		1	15	0.5		7.5		
	Side wall		2	20	0.5		20.0		
	Bottom		1	20	0.5		10.0		
	Side wall		2	28	0.5		28.0		
	Bottom		1	28	0.5		14.0		
	Side wall		2	22	0.5		22.0		
	Bottom		1	22	0.5		11.0		
	Side wall		2	29	0.5		29.0		
	Bottom		1	29	0.5		14.5		
	Side wall		2	18	0.5		18.0		
	Bottom		1	18	0.5		9.0		
	Side wall		2	16	0.5		16.0		
	Bottom		1	16	0.5		8.0		
	5th cross- side wall		2	20	0.50		20.00		
	Bottom		1	20	0.50		10.00		
	6th cross- side wall		2	22	0.50		22.00		
	Bottom		1	22	0.50		11.00		
							760.50	**91.00**	**69206**

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	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete								
	1st A cross- sidewall		2	5		0.50	5.00		
	Bottom		1	5		0.50	2.50		
	Side wall		2	8		0.50	8.00		
	Bottom		1	8		0.50	4.00		
	Side wall		2	10		0.50	10.00		
	Bottom		1	10		0.50	5.00		
	Side wall		2	10		0.50	10.00		
	Bottom		2	10		0.50	10.00		
	2nd A cross- Side wall		2	8		0.50	8.00		
	Bottom		1	8		0.50	4.00		
	Side wall		2	6		0.50	6.00		
	Bottom		1	6		0.50	3.00		
	Side wall		2	10		0.50	10.00		
	Bottom		1	10		0.50	5.00		
	Side wall		2	6		0.50	6.00		
	Bottom		1	6		0.50	3.00		
	3rd A cross- Side wall		2	8		0.50	8.00		
	Bottom		1	8		0.50	4.00		
	Side wall		2	12		0.50	12.00		
	Bottom		1	12		0.50	6.00		
	Side wall		2	10		0.50	10.00		
	Bottom		1	10		0.50	5.00		
	Side wall		2	5		0.50	5.00		
	Bottom		1	5		0.50	2.50		
	4th cross - side wall		2	5		0.50	5.00		
	Bottom		1	5		0.50	2.50		
	Side wall		2	8		0.50	8.00		
	Bottom		1	8		0.50	4.00		
	Side wall		2	9		0.50	9.00		
	Bottom		1	9		0.50	4.50		
	Side wall		2	5		0.50	5.00		
	Bottom		1	5		0.50	2.50		
	5th cross- side wall		2	10		0.50	10.00		
	Bottom		1	10		0.50	5.00		
	6th cross- side wall		2	15		0.50	15.00		
	Bottom		1	15		0.5	7.50		
							230.00	700.00	**161000.00**

NDD
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	KSRB 4-1.2 : Providing and laying in position **plain cement concrete of mix 1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation** including cost of all materials, labour, HOM of machinery, curing complete as per specifications.								
	RCC Drain bottom								
	RCC DRAIN								
	1st main road								
	0-30		2.00	30.00	0.90	0.15	8.10		
	30-46		2.00	16.00	0.90	0.15	4.32		
	46-56		culvert						
	56-86		2.00	30.00	0.90	0.15	8.10		
	86-94		culvert						
	94-119		2.00	25.00	0.90	0.15	6.75		
	119-128		culvert						
	128-151		2.00	23.00	0.90	0.15	6.21		
	151-161		culvert						
	161-186		2.00	25.00	0.90	0.15	6.75		
	186-195		culvert						
	195-218		2.00	23.00	0.90	0.15	6.21		
	218-227		culvert						
	227-257		2.00	30.00	0.90	0.15	8.10		
	257-284		2.00	27.00	0.90	0.15	7.29		
	Culvert		2.00	6.00	2.00	0.15	3.60		
							65.43	6000.00	**392580**
8	KSRB 4-6.4 : Providing and removing **centering, shuttering, strutting, propping** etc., and removal of form work for **vertical surface such as walls at any thickness**, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications.								
	RCC Drain side wall								
	0-30		8.00	30.00	0.60		144.00		
	30-46		8.00	16.00	0.60		76.80		
	46-56	culvert							
	56-86		8.00	30.00	0.60		144.00		
	86-94	culvert							
	94-119		8.00	25.00	0.60		120.00		
	119-128	culvert							
	128-151		8.00	23.00	0.60		110.40		
	151-161	culvert							
	161-186		8.00	25.00	0.60		120.00		

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AE (W2)

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	186-195	culvert								
	195-218		8.00	23.00	0.60		110.40			
	218-227	culvert								
	227-257		8.00	30.00	0.60		144.00			
	257-284		8.00	27.00	0.60		129.60			
							1099.20	350.00	**384720.00**	NDD AE(Civil)
9	Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.									
	For culverts bottom		2.00	6.00	2.00	0.15	3.60			
	For Side wall coping		4.00	6.00	0.45	0.10	1.08			
	Ramps for culverts		4.00	6.00	0.45	0.15	1.62			
							6.30	6517.00	**41057.00**	NDD AE(Civil)
6	Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications									
	Sidewall		4.00	6.00	0.45	0.45	4.86	5994.00	**29131.00**	NDD AE(Civil)
							4.86			
5	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.									
	Sidewall		4.00	6.00	0.60	0.45	6.48	5000.00	**32400.00**	NDD AE(Civil)
							6.48			
7	Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications									
	Sidewall		4.00	6.00		0.45	10.80	117.00	**1264.00**	NDD AE(Civil)
							10.80			
10	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of Design mix M20** with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works **in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc.,** including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications.									
	Bottom Concrete									
	0-30		2	30	0.15	0.9	8.10			
	30-46		2	16	0.15	0.9	4.32			

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	46-56	culvert							
	56-86		2			9	8.10		
	86-94	culvert							
	94-119		2	25	0.15	0.9	6.75		
	119-128								
	128-151		2	23	0.15	0.9	6.21		
	151-161	culvert							
	161-186		2	25	0.15	0.9	6.75		
	186-195	culvert							
	195-218		2	23	0.15	0.9	6.21		
	218-227	culvert							
	227-257		2	30	0.15	0.9	8.10		
	257-284		2	27	0.15	0.9	7.29		
	Side wall								
	0-30		4	30	0.15	0.6	10.80		
	30-46		4	16	0.15	0.6	5.76		
	46-56	culvert							
	56-86		4	30	0.15	0.6	10.80		
	86-94								
	94-119	culvert	4	25	0.15	0.6	9.00		
	119-128								
	128-151		4	23	0.15	0.6	8.28		
	151-161	culvert							
	161-186		4	25	0.15	0.6	9.00		
	186-195	culvert							
	195-218		4	23	0.15	0.6	8.28		
	218-227	culvert							
	227-257		4	30	0.15	0.6	10.80		
	257-284		4	27	0.15	0.6	9.72		
							144.27	7000.00	**1009890.00**
11	KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - **TMT bars Fe 500**								
				L	no of rods	le of u bar	Total length		
							8mm (U bar)	8mm	
	Main rod- 0-30		2	30	600	1.8	1080		

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	distribution		2	30	9	30		270	
	30-46		2	16	320	1.8	576		
			2	16	9	16		144	
	56-86		2	30	600	1.8	1080		
			2	30	9	30		270	
	94-119		2	25	500	1.8	900		
			2	25	9	25		225	
	128-151		2	23	460	1.8	828		
			2	23	9	23		207	
	161-186		2	25	500	1.8	900		
				25	9	25		225	
	195-218		2	23	460	1.8	828		
				23	9	23		207	
	227-257		2	30	600	1.8	1080		
				30	9	30		270	
	257-284		2	27	540	1.8	972		
				27	9	27		243	
							8244.00	2061.00	
							5111.28		
								1277.82	
							6389.10		
							6.39	72595.00	**463817.00**
13	Providing **precast slab of 100 mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge- Data rate								
	RCC Drain Covering Slab								
	0-30		125		0.60	0.90	67.50		
	30-46		65		0.60	0.90	35.10		
	46-56	culvert							
	56-86		115		0.60	0.90	62.10		
	86-94	culvert							
	94-119		90		0.60	0.90	48.60		
	119-128		40		0.60	0.90	21.60		
	128-151		85		0.60	0.90	45.90		
	151-161	culvert							
	161-186		95		0.60	0.90	51.30		
	186-195	culvert							
	195-218		90		0.60	0.90	48.60		
	218-227	culvert							

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	227-257		120		0.60	0.90	64.80		
	257-284		100		0.60	0.90	54.00		
		Sqm					**499.50**	2057.00	**1027472.00**
12	Providing precast slab of 250 mm thick including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge- Data rate								
			20		1.80	0.60	21.60		
		Sqm					**21.60**	5791.00	**125086.00**
14	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per								
	Road work								
	1st A cross	5	10		2	0.2	20.00		
		10	5		2	0.2	20.00		
	2nd A cross	15	5		1.5	0.2	22.50		
		20	6		2.5	0.2	60.00		
	3rd A cross	15	4.5		2	0.2	27.00		
		10	2.5		2	0.2	10.00		
	4th A cross	15	3		3	0.2	27.00		
		20	2.5		3	0.2	30.00		
	5th cross	15	3		2.5	0.15	16.88		
		10	2.5		3	0.15	11.25		
	6th cross	20	3		3.5	0.205	43.05		
							287.68	1997.00	**574487.00**
15	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications								
	Vinayaka layout 1st main road								
	0-30		1	30.00	7.00		210.00		
	30-60		1	30.00	7.50		225.00		
	60-90		1	30.00	7.00		210.00		
	90-120		1	30.00	7.00		210.00		
	120-150		1	30.00	7.40		222.00		
	150-180		1	30.00	7.10		213.00		
	180-210		1	30.00	7.00		210.00		
	210-240		1	30.00	7.20		216.00		
	240-270		1	30.00	7.00		210.00		
	270-288		1	18.00	6.90		124.20		

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	1st cross road								
	0-30		1	30.00	6.00		180.00		
	30-60		1	30.00	6.50		195.00		
	60-80		1	20.00	5.50		110.00		
	2nd cross road								
	0-30		1	30.00	5.25		157.50		
	30-60		1	30.00	5.85		175.50		
	60-80		1	20.00	6.35		127.00		
	3rd cross road								
	0-30		1	30.00	6.50		195.00		
	30-60		1	30.00	5.50		165.00		
	60-90		1	30.00	6.00		180.00		
	90-110		1	20.00	6.30		126.00		
	4th cross road								
	0-30		1	30.00	6.50		195.00		
	30-60		1	30.00	6.80		204.00		
	60-90		1	30.00	6.50		195.00		
	90-110		1	20.00	6.50		130.00	NDD AEE(LA) 6/9/18	
	5th cross road								
	0-36		1	36.00	6.00		216.00		
	6th cross road								
	0-33		1	33.00	6.50		214.50		
	chinnappa layout								
	2nd cross road								
	0-30		1	30.00	6.00		180.00		
	30-70		1	40.00	5.83		233.20		
	2nd main road								
	0-30		1	30.00	5.00		150.00		
	30-60		1	30.00	5.50		165.00		
	60-90		1	30.00	5.90		177.00		
	90-120		1	30.00	7.20		216.00		
	120-150		1	30.00	5.25		157.50		
	150-180		1	30.00	5.50		165.00		
	2nd A cross								
	0-36		1	36.00	6.50		234.00		
		Sqm					**6493.40**		
						LTD TO	**6493.10**	13.00	**84410.00**

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KSRRB M500-19. Providing and laying **bituminous concrete 40 mm thick** with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - **using 40/60 TPH capacity H.M.P.**

	Vinayaka layout 1st main road							
	0-30		1	30	7	0.040	8.40	
	30-60		1	30	7.5	0.040	9.00	
	60-90		1	30	7	0.040	8.40	
	90-120		1	30	7	0.040	8.40	
	120-150		1	30	7.4	0.040	8.88	
	150-180		1	30	7.1	0.040	8.52	
	180-210		1	30	7	0.040	8.40	
	210-240		1	30	7.2	0.040	8.64	
	240-270		1	30	7	0.040	8.40	
	270-288		1	18	6.9	0.040	4.97	
	1st cross road							
	0-30		1	30	6	0.040	7.20	
	30-60		1	30	6.5	0.040	7.80	
	60-80		1	20	5.5	0.040	4.40	
	2nd cross road							
	0-30		1	30	5.25	0.040	6.30	
	30-60		1	30	5.85	0.040	7.02	
	60-80		1	20	6.35	0.040	5.08	
	3rd cross road							
	0-30		1	30	6.5	0.040	7.80	
	30-60		1	30	5.5	0.040	6.60	
	60-90		1	30	6	0.040	7.20	
	90-110		1	20	6.3	0.040	5.04	
	4th cross road							
	0-30		1	30	6.5	0.040	7.80	
	30-60		1	30	6.8	0.040	8.16	
	60-90		1	30	6.5	0.040	7.80	
	90-110		1	20	6.5	0.040	5.20	NDD DE(WS) 6/9/18
	5th cross road							
	0-36		1	36	6	0.040	8.64	
	6th cross road							
	0-33		1	33	6.5	0.040	8.58	
	chinnappa layout							

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	2nd cross road								
	0-30		1	30	6	0.040	7.20		
	30-70		1	40	5.83	0.040	9.33		
	2nd main road								
	0-30		1	30	5	0.040	6.00		
	30-60		1	30	5.5	0.040	6.60		
	60-90		1	30	5.9	0.040	7.08		
	90-120		1	30	7.2	0.040	8.64		
	120-150		1	30	5.25	0.040	6.30		
	150-180		1	30	5.5	0.040	6.60		
	2nd A cross								
	0-36		1	36	6.5	0.040	9.36		
							259.74	8000.00	**2077888.00**
17	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications.								
	Vinayaka layout 1st main road								
	Edge line								
	0-30		2	30	0.10		6.00		
	30-60		2	30	0.10		6.00		
	60-90		2	30	0.10		6.00		
	90-120		2	30	0.10		6.00		
	120-150		2	30	0.10		6.00		
	150-180		2	30	0.10		6.00		
	180-210		2	30	0.10		6.00		
	210-240		2	30	0.10		6.00		
	240-270		2	30	0.10		6.00		
	270-288		2	18	0.10		3.60		
	Centre line		3	10.00	0.10		3.00		
			3	10.00	0.10		3.00		
			3	10.00	0.10		3.00		
			3	10.00	0.10		3.00		
			3	10.00	0.10		3.00		
			3	10.00	0.10		3.00		
			3	10.00	0.10		3.00		
			3	10.00	0.10		3.00		
			3	10.00	0.10		3.00		

NDD DE(W) 7/9/18

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		3	3.00	0.10		0.90		
1st cross road								
0-30		2	20.00	0.10		4.00		
30-60		2	20.00	0.10		4.00		
60-80		2	10.00	**0.1**		2.00		
2nd cross road								
0-30		2	30	0.1		6.00		
30-60		2	25	0.1		5.00		
60-80		2	15	0.1		3.00		
3rd cross road								
0-30		2	25	0.1		5.00		
30-60		2	25	0.1		5.00		
60-90		2	25	0.1		5.00		
90-110		2	15	0.1		3.00		
4th cross road								
0-30		2	25	0.1		5.00		
30-60		2	25	0.1		5.00		
60-90		2	25	0.1		5.00		
90-110		2	20	0.1		4.00		
5th cross road								
0-36		2	25	0.1		5.00		
6th cross road								
0-33		2	25	0.1		5.00		
chinnappa layout								
2nd cross road								
0-30		2	30	0.1		6.00		
30-70		2	40	0.1		8.00		
2nd main road								
0-30		2	30	0.1		6.00		
30-60		2	30	0.1		6.00		
60-90		2	30	0.1		6.00		
90-120		2	30	0.1		6.00		
120-150		2	30	0.1		6.00		
150-180		2	30	0.1		6.00		
Centre line								
		1	5	0.1		0.50		
		1	5	0.1		0.50		
		1	5	0.1		0.50		
		1	5	0.1		0.50		

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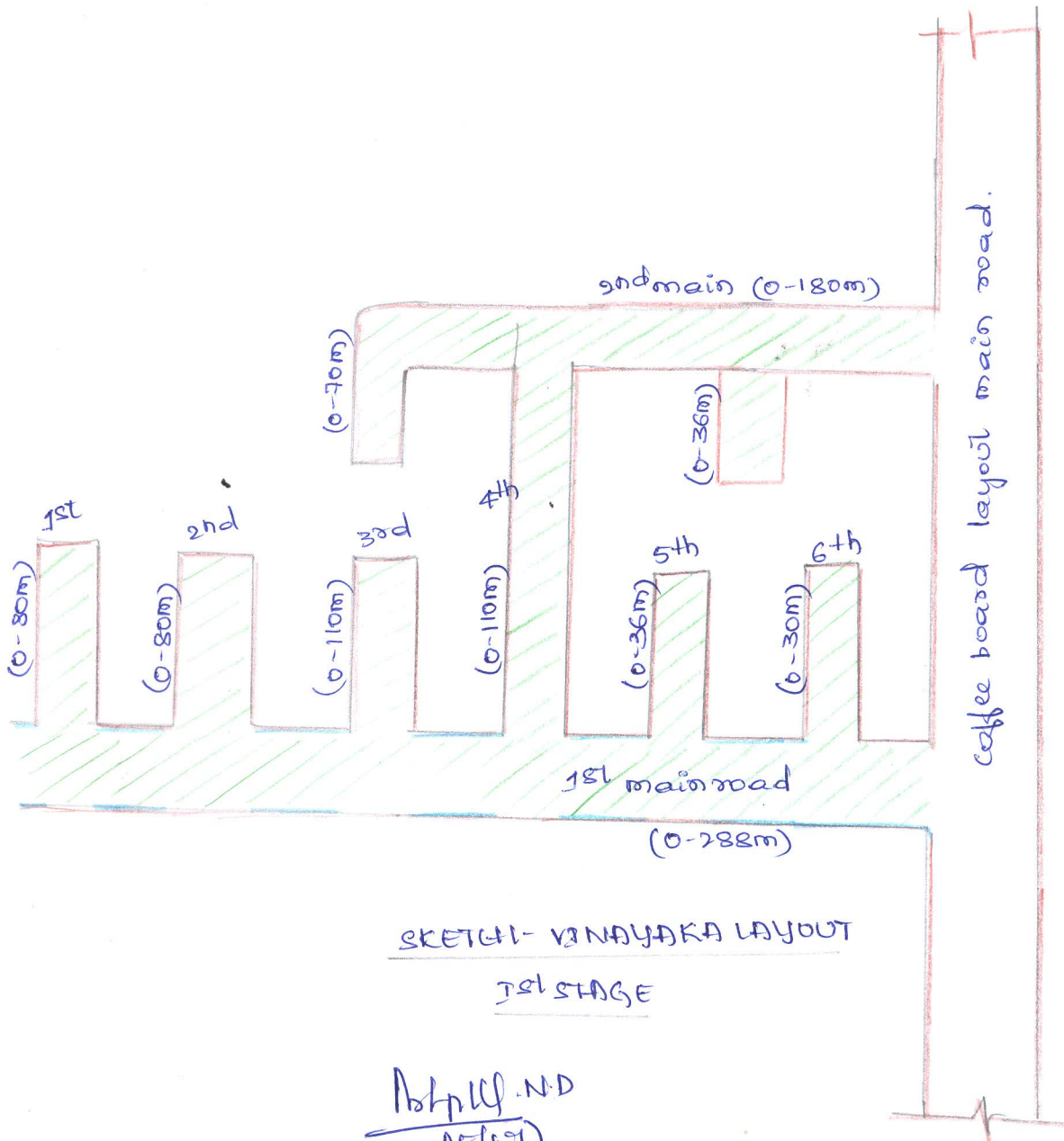
			1	5	0.1		0.50		
			1	5	0.1		0.50		
			1	5	0.1		0.50		
	2nd A cross								
	0-36		2	2	0.1		0.40		
							210.40	**613**	**128975.00**
								Total	**6787151.50**

NDD
AE(W2)
12/9/18

N.D
AE(W2)

19/9

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092



SKETCH- VINAYAKA LAYOUT

1st STAGE

N.D
AE(W)

	INDEX
	RCC-drain
	BC-road

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